



International

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Department of Health – Radiographer Licensure Examination

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Question 1. (Single Select)

The pelvis is comprised of which of the following bones?

- A: Hip bone
- B: Cranium
- C: Conchae
- D: Maxillary

Correct Answer: A

Explanation:

The pelvis, a crucial structure in the human body, serves as the foundational region connecting the trunk and the lower limbs. It provides support for the weight of the upper body when sitting and standing and is critical for bearing loads during walking and lifting. Additionally, the pelvis houses and protects various organs, including those of the lower digestive tract and the reproductive organs.

The pelvis is composed of several bones which include the sacrum, coccyx, and two hip bones (each hip bone is often referred to as an os coxae or an innominate bone). The sacrum is a triangular bone situated at the lower part of the vertebral column and wedged between the two hip bones. The coccyx, or the tailbone, is located at the very base of the sacrum and has little direct function in modern humans but is an attachment site for various muscles, tendons, and ligaments.

Each hip bone is formed from three fused bones: the ilium, ischium, and pubis. These bones converge in a region known as the acetabulum, which serves as the socket for the femoral head (the upper part of the thigh bone) creating the hip joint. The ilium is the largest and most superior of the three, forming the broad, wing-like part on each side. The ischium forms the lower and back part of the hip bone, and the pubis forms the lower frontal portion of the hip bone.

In the context of the question provided, the correct answer would be that the pelvis is comprised of the sacrum, coccyx, and two hip bones. Other options such as cranium, conchae, and maxillary are parts of the human skeleton but are not components of the pelvis. The cranium forms the skull minus the mandible, conchae are small bones found within the nasal cavity, and the maxillary bones form the upper jaw. None of these are related to the structure of the pelvis.

Question 2. (Single Select)

A 60 year old patient has a suspected hip fracture. Which of the following is a sign that most likely represents a hip fracture?

- A: An internal spheroid
- B: An external foot rotation
- C: A hip synchondrosis
- D: A hip joint flexion

Correct Answer: B

Explanation:

The most indicative sign of a hip fracture in a 60-year-old patient is an external foot rotation. This specific sign is critical because it directly relates to the mechanics and the displacement caused by the fracture in the hip area. Hip fractures are common in the elderly due to increased bone fragility and a higher risk of falling. When a hip fracture occurs, the normal anatomical alignment of the hip joint and the upper leg is disrupted, often resulting in the outward (external) rotation of the foot on the affected side.

Upon observing a patient with a suspected hip fracture, healthcare providers look for physical signs such as pain in the hip or groin area, inability to move immediately after a fall, and notably, the position of the foot. External foot rotation occurs due to the muscle imbalance and the pull of muscles around the hip that occurs after the bone structure is altered by the fracture. This sign is not only a clinical observation but can also be detected on radiographic images, where the misalignment and the direction of the foot provide clues about the nature and location of the fracture.

Additionally, the presence of the lesser trochanter in radiographic imaging can further confirm the diagnosis of a hip fracture. The lesser trochanter, a bony prominence on the femur, becomes more prominent or visible when there is a fracture that displaces the hip structure. Radiographic examination, therefore, plays a crucial role in confirming the initial assessment made based on physical examination and patient history.

In the context of medical imaging, it's important to handle the affected limb with care. If a hip fracture is suspected based on external signs such as foot rotation, medical imaging technicians are advised against internally rotating the hip for better imaging angles, as this might exacerbate the injury. Normally, an anteroposterior (AP) pelvic radiograph requires some degree of internal

rotation of the hip, but this standard procedure is modified in cases where a fracture is suspected to prevent further harm to the patient.

In conclusion, the presence of an external foot rotation is a significant indicator of a hip fracture in elderly patients. This clinical sign, supported by imaging findings and careful patient handling, guides the diagnostic and treatment process for optimal patient care and recovery.

Question 3. (Single Select)

For a magnetic resonance imaging procedure, what position is the patient most likely placed?

- A: Supine
- B: Prone
- C: Decubitus
- D: Lateral recumbent

Correct Answer: A

Explanation:

The correct position for a patient during a magnetic resonance imaging (MRI) procedure is typically the supine position. In this position, the patient lies flat on their back with their face directed upwards towards the ceiling. This positioning is preferred because it allows for a stable and uniform alignment of the body, which is essential for producing clear and detailed images.

In the supine position, the natural curvature of the spine is supported, and the limbs are comfortably aligned along the body, reducing any potential movement that might blur the MRI images. This position also helps in evenly distributing the patient's weight, thereby minimizing pressure points that could cause discomfort during the procedure, which sometimes lasts for an extended period.

Moreover, the supine position is advantageous for the MRI technologists as it provides easy access to insert intravenous lines if contrast agents are needed, and it simplifies the process of positioning the coils that are used to enhance the MRI signal. These coils can be more effectively placed around the area of interest, such as the chest, abdomen, or brain, when the patient is supine.

It is important for the technologist to explain to the patient that they might experience slight movements of the MRI table automatically adjusting to obtain the best possible images during the scan. Patients are usually instructed to remain as still as possible to prevent any motion artifacts that could affect the quality of the imaging.

In summary, the supine position is most commonly used for MRI procedures due to its numerous practical advantages in terms of patient comfort, ease of access for the technologist, and effectiveness in achieving high-quality images. It is the standard practice for ensuring that the procedure goes smoothly and yields the most accurate diagnostic information.

Question 4. (Single Select)

The name of a medication that is established by the manufacturer of the drug is called:

- A: Generic name
- B: Nonproprietary name
- C: Brand name
- D: Contraindications

Correct Answer: C

Explanation:

In the realm of pharmaceuticals, the terminology used to describe a medication varies based on its classification. One key classification system for drug names includes the chemical name, the generic name, and the brand name. Each of these names serves a distinct purpose in identifying and differentiating drugs.

The chemical name of a drug provides a detailed description of the drug's chemical composition and molecular structure. It is often complex and primarily used by health professionals and researchers who require detailed chemical information about the substance.

The generic name, on the other hand, is a standardized name given to a drug that is universally accepted and used to identify it regardless of the manufacturer. It is typically less complex than the chemical name, making it more accessible for healthcare providers and the public. Generic names are assigned by an authoritative body, such as the International Nonproprietary Names (INN) system maintained by the World Health Organization. The generic name is also not

protected by trademark, meaning that any pharmaceutical company can produce and sell a drug using its generic name once the original patent expires.

The brand name, which is also known as the trade name, is the name given to a drug by its manufacturer. This name is usually easy to pronounce, memorable, and designed to be appealing to both healthcare providers and patients. Unlike the generic name, the brand name is protected by trademark, which means that it can only be used by the company that owns the rights to it. This exclusivity often exists for a period during which the company aims to recover the research and development costs associated with bringing the drug to market.

Therefore, when referring to the name of a medication that is established by the manufacturer of the drug, it is known as the "brand name." This name not only helps in differentiating the drug from its competitors but also often carries connotations of quality and effectiveness marketed by the owning company. The brand name is crucial for a company's marketing strategy and plays a significant role in the commercial aspect of pharmaceutical sales.

Question 5. (Single Select)

Which of the following is a contraindication of an angiographic procedure?

- A: Bleeding
- B: Blood clot formation
- C: Infection at the site of puncture
- D: Reaction to the contrast media

Correct Answer: D

Explanation:

Angiography is an imaging procedure that uses contrast media to visualize blood vessels and assess their structural integrity. This procedure is crucial in diagnosing and managing various vascular diseases. However, it comes with potential risks, complications, and contraindications that need to be carefully considered before proceeding.

One of the primary contraindications for an angiographic procedure is an allergic reaction to the contrast media. Contrast media, or dye, is essential for creating clear images of blood vessels during angiography. Some individuals may have or develop an allergic reaction to this

substance, which can range from mild itching or rash to severe reactions like anaphylactic shock. Therefore, patients known to have hypersensitivity to the dye used in angiography are typically advised against undergoing this procedure.

Other contraindications may include severe renal function impairment. The kidneys are responsible for filtering out the contrast dye from the bloodstream. If a patient has significantly reduced kidney function, the dye might not be adequately cleared, leading to further renal complications or toxic reactions. In such cases, alternative diagnostic methods that do not involve contrast media are considered.

While not contraindications, there are several risks and complications associated with angiography that patients should be aware of. These include bleeding at the puncture site where the catheter is inserted, which is usually minor but can occasionally be significant. Formation of blood clots, or thrombosis, at the catheter site or in a blood vessel is another risk, which can lead to more severe issues like embolus formation, where a clot moves to other parts of the body. Tearing or dissection of the blood vessel and infections at the puncture site are additional potential complications.

Given these risks and contraindications, it is essential to evaluate each patient's medical history and condition thoroughly before recommending an angiographic study. In cases where the risks outweigh the benefits, alternative diagnostic approaches should be explored to ensure patient safety and effective care.



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